54 GTC V	108 CTG L	162 CGA R	216 AAG K	270 GAC D	324 ACC T	378 GTG V
CCA P	CCT	TAC Y	CCC	AAG K	AGC	TAT (
GTA V	ACC	ATT I	GAC	$ ext{CTG}$	GAT D	ATC
45 AGT S	99 TCC S	153 TGC C	207 GTT V	261 AAC N	315 GGT G	369 CGC R
CAA Q	TAC Y	CCC	GAT D	CCC	TTC	TCT
GAT D		CTG	GTG V	ATG	TGC	TCC
36 CGG R	90 CCC	144 TAC Y	198 ACT T	252 CCC P	306 AGC S	
CGC	GGA G	GTC V	GCC	CTG	AGC	CTC
ACC	TGT	ATC	CTG L	CGG R	TGC	AGT
27 CAA Q	81 AAT N	135 GAG E	189 TAT Y	243 CAC H	297 ACC T	351 CCC P
CAG Q	5	GAA E	GAT D	ATC I	AAC N	CTG L
GCA	TGT	AGG R	CCA	GTC V	TGG W	GTG V
18 CCA P	72 AAA K	126 CCC P	180 GCC A	234 CAG Q	288 GGA G	342 CTG L
ACA T	ACG	GGA G	GAG E	TGC	TCA S	AAG K
CTG	GCT	AAA K	ACT	TAT Y	CAC H	ACC
9 CCT P	63 ATG M	117 ATG M	171 GGC G	225 CAG Q	279 CAT H	333 CGC R
CGG R	AGC	GCC	ACA T	CCC	CTG	TCG
NNG X	3 3 9	GAG	AAC	TCT	GAG E	AAG K
5						

FIGURE 1A

FIGURE 1B

432 CCC P	486 CTG L	540 AAA K	594 GAG E	648 CAC H	702 TTC F	756 GAC D
GAG	TGC	399	TGG W	CGA C	GGC 1	TGG G
ATT I	CAC H	AAT N	ACA T	CCT	GAT D	GTA
423 GTC V	477 AGC S	531 GGC G	585 GGG G	639 CAG Q	693 CGA R	747 TAT Y
AAG K	ACC T	AAG K	AAG K	TAC Y	TTA L	TTA L
CAC H	CAC H	GTC V	GTG	TGG W	GTC V	CAC H
414 CTG L	468 CTC L	522 <sub>.</sub> GAC D	576 GAG E	630 TTC F	684 AAT N	738 AGC S
AAG K	TTT F	GGA G	TTC	GAC D	CCC	999
CCA P	GCC	CTG	ACG	TAT Y	GCT A	TAC
405 GCC A	459 CTG L	513 TCC S	567 GAG E	621 GGC G	675 GCA A	729 CTG
CGG R	GAA E	AGC	999	$ ext{TTG}$	TGG W	GGA
CCC	TGC	ATC I	GAT D	CCG P	GAG B	GCT A
396 GAG E	450 AAG K	504 ATG M	558 CTG L	612 GCA A	666 ACT.	720 GAG
TCT	GCC	GTG V	CTG L	GCT A	AGC	GTG
0 0 0	CAT H	GAA E	GTG V	GGT G	ATC I	GAT
387 GTG V	441 ATC I	495 GGG	549 TTT F	03 GG	57 TG	711 GCT A
GAC	GAC D	AGC	GGT	CCT	GTC ,	CCC
GTG V	AAG GAC K D	GCC AGC GG	GGG GGT G G	6 AGA CCT G R P G	AAT	AAC

810 CCC P	864 TGC C	918 TCA S	972 ; CCC P	1026 CGC TTC CTC R F L	1080 TCT GAC CCA S D P	1134 GTT AAG GGA V K G
CTT ATT L I	3 3 9	909 GGT ACA TGG T G T W S	CTG	1 TTC F	GAC D	1 AAG K
$\mathbf{CTT}$	855 TTT GTG F V	ACA T	CTG	CGC R	TCT	GTT V
801 GGG G	855 TTT F	909 GGT G	963 TGG W	1017 CTG GAC GAC L D D F	1071 TAT GAC ATC 1 Y D I S	1116 1125 TTC CTC GGA GGC AGC ATT F L G G S I
GAT	299	GGA	9	1 GAC D	1 GAC D	1 AGC S
AAA K	CAA Q	GAG	AAG K	CTG	TAT Y	1999 1990
792 CTA L	846 GCC CAA C A Q C	900 AAC GAG GGA (	954 GTG V	1008 5 CTC TCC (	1062 AGG CAG 1 R Q )	116 GGA G
TCT	GAC GCT D	AAG K	AAA K	CTC L	1 AGG R	1 CTC L
CTG L	GAC	TAC Y	AAG K	CTG	CTG	${ m TTC}$
783 ACC T	837 CCA P	891 TTC	945 CCC AAG AAA GTG AAG GGC P K K V K G	999 ATC CTG I L	1053 GGG GAC CTG 7 G D L F	1107 CAG CTC 1 Q L E
CAG Q	AAC	CGC R	CCC	GAC D	GGG G	1 CAG Q
GTG V	CAC H	CAG Q	GTG V	ACC	CAT H	GGA G
774 ATT I	828 CTG L	882 ATC I	936 CAG GTG Q V	990 ATC ACC GAC A	1044 TGG CTG CAT ( W L H (	1098 CGC CTC ACA GGA R L T G
GAG	TTC	ACC	ATC	CTG L	1 TGG W	1 CTC L
CAT H	CGC R	TCC	GTG V	0 0 0	AAC N	CGC R
765 CGC R	819 ATC I	873 AGC S	927 AAG K	981 CCA P	.035 AGC S	.089 CCC P
CAG	GAG	CTC	GAG E	ATG M	1 TTC F	1 AGA R
765 TGG CÄG CGC ( W Q R )	8 TTG GAG A L E I	GCA	GTG V	981 GAA ATG CCA ( E M P (	TAC	1089 CAG AGA CCC Q R P

# FIGURE 1C

1152 1161 1170 1179 1188 CAA GTG CTG GAG GAA CTA AAG TCC CAG CCA GAG CCC CTA Q V L E D E E L K S Q P E P L	1206. 1215 1224 1233 1242 GGA AAA CGG GTG GCT GGA GGC CCT CAG ATG ATC CAG CTC AGC CTG G K R V A G G P Q M I Q L S L	1296 CAG Q	1350 GAC D	1404 AAG K	.458 TGT C	1512 TTG
CCC	AGC	AAG	GTA		J GAT D	1 ATT
GAG	CTC	GAC	GAT D	${ m TTC}$	1950 1960	CCT
1179 CCA P	1233 CAG Q	1260 1269 1278 1287 1296 CGC CTC TAC ATC ACC TCG CTG TAC AGT GCC TGG GAC AAG CAG R L Y I T S L Y S A W D K Q	1314 1323 1341 1350 GAT CTC ATC AGG GAA GGC TCT GTG ATG CTG CAG GTT GAT GTA GAC D L I R E G S V M L Q V D V D	1368 1377 1386 1395 1404 GGA GGG CTG AAG TTG AAC CCC AAC TTC CTG GTG GAC TTC GGG AAG G G L K L N P N F L V D F G K	1422 1431. 1440 1449 1458 GGC CCA GCC CTT GCC CAT GAG CTC CGC TAC CCT GGG GGC GAT TGT G P A L A H E L R Y P G G D C	1476 1485 1494 1503 1512 ATC TGG ATT TGA ACT CCA CCC TCA TCA CCC ACA CTC CCT ATT TTG I W I
CAG Q	ATC	GCC	CAG Q	1 GTG V	1 CCT P	1 ACA
TCC	ATG M	AGT	CTG	CTG	TAC Y	သသ
1170 . AAG . K	1224 ' CAG Q	1278 TAC Y	1332 ; ATG M	1386 TTC F	440 CGC R	1494 TCA
CTA	CCT P	1 CTG L	1 GTG V	1 AAC N	1 CTC L	1 TCA
GAA E		TCG	TCT	CCC	GAG	သသ
1161 GAG E	1215 GGA G	1269 ACG T	1323 GGC G	1377 AAC N	431 CAT H	1485 CCA
GAC	GCT	) ACC T	1 GAA E	1 TTG L	1 GCC A	1 ACT
GAG E	GTG	ATC I	AGG R	AAG K	CTT	TGA
1152 CTG L	1206 . CGG .R	1260 TAC Y	1314 ATC I	1368 CTG L	422 GCC A	1476 ; ATT I
GTG V	AAA K	CTC L	CTC L	1 GGG G	1 CCA P	1 TGG W
	GGA G	CGC R	GAT D	GGA G	299 2	ATC I
1143 GTG V	L197 AAG K	1251 AAG K	.305 CCT P	359 AAA K	413 CTT L	467 GAC D
1143 GGC CCT GTG G P V	GTC V	GGG G	1 TAC Y	1 GTA V	1 CCC P	1 TCT S
9	1197 GTG GTC AAG V V K	1251 GAT GGG AAG D G K	1305 TTT TAC CCT F Y P	1359 ACA GTA AAA T V K	1413 GAG CCC CTT	1467 AGC TCT GAC S S D

# FIGURE 1D

1566	CCC GAC
1557	CTC TTG GCA
1548	TTC TGC TCT
1539	CTG GCT TCA
1530	CTT GGG GAC
1521	GGC CCT CAC TTC

1620	TGA GTC
1611	GCA ATG TGT I
1602	ACT GTG (
7	GCT GAG
1593	AGC CAA G
1584	GTA CCA CAC
1575	TGG CAG CAT G
	CCL

1674	TGA
_	CCA TGA
	${ m TTT}$
1665	
-	
	TGT GCT
9691	CAC
	GCT
	GTT
1647	CTT
	TTG
	CCA CTG
1638	CCA
	TAC TGA
	TAC
629	ATT
~	TAC
	ATA

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TAA ACT
AAA
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ACC 7
CGC
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GCT

# FIGURE 1E

_	HSEBP	g1374792		g298710
	RNTGTEA	RNTGTEA	RNTGTEA	RNTGTEA
	SEIVYLPCIYRNT(	SEIVYLPCIYRNTGTE	EIVYLPCIYRNTGTE	STPLEAMKGPREEIVYLPCIYRNTGTE
	KGPREEI	PRE	KGPREEI	KGPREEI
	STPLEAMKGPRE	STPLEAMKG	STPLEAMKGPRE	STPLEAM
	N C G P G Y	NCGPGY	K C G P G Y	K C G P G P
\$ E	AIRC	ATK	A T K C	MATKCT

HSFRP	g1374792	g-27,530 q2,27,630	g298710
SPQYCQVIHRLPMPNLKDELHHSGWNTCHS	SPOYCOVIHRLPMPNLKDELHHSGWNTY	SPQYSQVIHRLPMPYLKDELHHSGWNTC	SPOYSOVIHRLPMPYLKDELHHSGWNTC 92
PDYLATVDVDPR	PDYLATVDVDPK	PDYLATVDVDPK	41 PDYLATVDVDPKSPOYS

HSEBP	q1374792	g227630	r298710
П	I	EVKGTWEKPGDAAPMGYDFWYQPRHNVMV	$\triangleright$
SVKGTWERPGGAAPLGYDFWYOPRHNVM	Σ	Σ	V K G T W E K P G G A S P M G Y D F W Y O P R H N V M V
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# FIGURE 2A

8
HSEBP   g1374792   g227630   g298710
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HHHH
HHHHH
N N N N
M W W
N N N N
Y V F V F V
N H H L L
w w w w
K K K
DGFNPADVEAGLYGSHLYVWDWQRHEIVQ DGFNPADVEAGLYGSHLYVWDWQRHEIVQ DGTNPAHVEAGLYGSRIFVWDWQRHEIIQ DGFNPAHVEAGLYGSRIFVWDWQRHEIIQ
<b>E E E E</b>
> D H
AAAA
ZZZZ
Q Q Q Q
1 V L R 1 V L R 1 V F K
ZZZZ
1 A P 1 A P
M M M M M M M M M M M M M M M M M M M
E E E E E
201 201 201 201 201

PLEIRFLHNPDAAOGFVGCALSSTIORFYKN HSFRP	LEIRFLHNPSATQGFVGCASAPNIORFYKT 01	LEIRFLHDPSATQGFVGCASAPNIORFYKN G227	LEIRFLHDPSATOGFVGCALSSNIORFYKN
TLSLKDGLIPLE	TLSLKDGLIPLE	L H	TIOMTDGLIPLE

<u> 1</u> 20	37/702	777630	27030	98/TO
H	3 5	7 6	וכ	ď
EGGTWSVEKVIQVPPKKVKGWLLPEMPGLITTDII. GI. N D B HGTPD	31 REGTWSVEKVIQVPPKKVKGWLLPGVPGLITDII, I, SI, DR 11377/793	Q V P S K K V K G W M L P G V P G T T T T T T T T T T T T T T T T T T	O V P S K K V K C W M M I M M T T T T T T T T T T T T T T T	90 N U U U U U U U U U U U U U U U U U U
281	281	281	281	

HSEBP	HSEBP
g1374792	g1374792
g227630	g227630
g298710	g298710
I TTSLYSAWDKQFYPDLIREGSVMLQVDVDTVKGGLKLNP HSEBP	NFLVDFGKEPLGPALAHELRYPGGDCSSDIWI
I I TTSLYSAWEKQFYPDLIREGSVMLQVDVDTVKGGLKLNP g1374792	NCLVDFGKEPLGPALAHELRYPGGDCSSDIWI
I A TTSLYSAWDKQFYPDLIREGSMMLQIDVDTVNGGLKLNP g227630	NFLVDFGKLPLGAALAHELRYPGGDCSSDIWI
I A TTSLYSAWDKQFYPDLIREGSVMLQVDVDTVNGGLKLNP g298710	NFLVDFGKEPLGPALAHELRYPGGDCSSDIWI
401	441
401	441
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401	441

NFLVDFGKEPLGPALAHELRYPGGDCSSDIWI	3	NFLVDFGKLPLGAALAHELRYPGGDCSSDIWI	SSDIW
		_	

FIGURE 2C

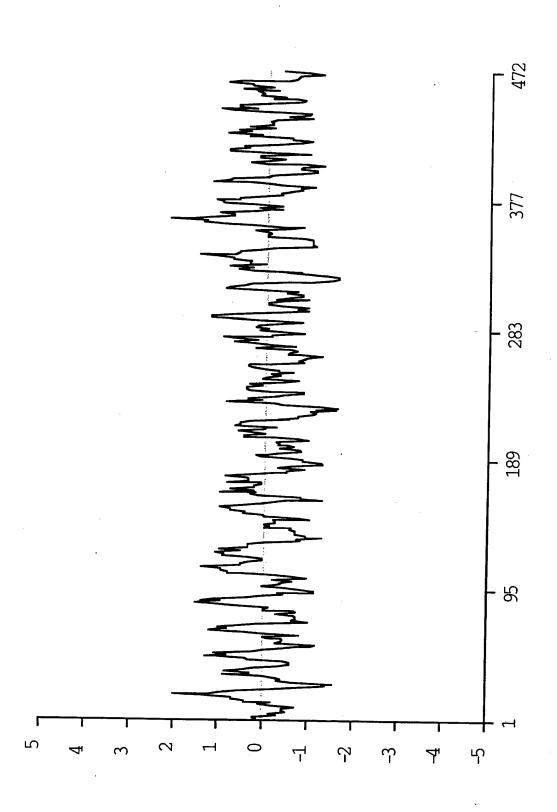


FIGURE 3

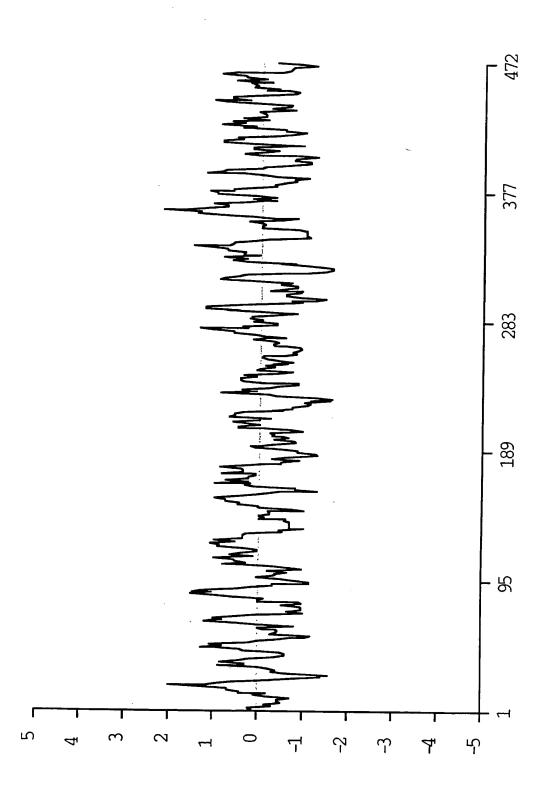


FIGURE 4

ICHA75E INDANA

#### FIGURE 5